DOCUMENT RESUME

ED 221 096 HE 015 363

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TITLE Enrollment Report on Graduate Degree Programs in Pharmacy, Fall 1981.
INSTITUTION American Association of Colleges of Pharmacy, Bethesda, Md.
PUB DATE 82
NOTE 35p.; For related document see HE 015 359.
AVAILABLE FROM American Association of Colleges of Pharmacy, 4630 Montgomery Avenue, Suite 201, Bethesda, MD 20814.

EDRS PRICE MF01 Plus Postage. PC Not Available from EDRS.
DESCRIPTORS Doctoral Degrees; *Enrollment Trends; Females; Foreign Students; Full Time Students; *Graduate Students; Higher Education; Majors (Students); Males; Masters Degrees; Minority Groups; Part Time Students; *Pharmaceutical Education; Pharmacy; *Professional Education; School Location; School Surveys; State Surveys; Student Financial Aid

ABSTRACT

The results of the 1981 Enrollment Survey of Graduate Degree Programs in schools of pharmacy are presented, based on responses from 52 schools of pharmacy. Information is presented on: fall 1981 full-time graduate enrollment in masters programs; minority full-time graduate enrollment in masters programs; full-time graduate enrollment in Ph.D. programs; minority full-time graduate enrollment in Ph.D. programs; part-time enrollment in graduate programs; graduate part-time enrollments by discipline; previous degrees of full-time and part-time graduate students; 1981 geographical origin of full-time graduate students; state of residence of American graduate students by degree; enrollment of American full-time graduate students by state of residence; country of origin of foreign full-time graduate students; financial support programs provided to graduate students in 1981-82; graduate programs (M.S. and Ph.D.) offered in 1981-82; and change in pharmacy school graduate full-time and part-time enrollments. In 1981 the total graduate enrollment in pharmacy was 2,961. A slight decline of 6.8 percent in the total full-time students enrolled in M.S. programs occurred between 1980-81 and 1981-82. This decline represents a 9.2 percent drop for men and a 2.8 percent decrease for women. By discipline, the average decline was 6.1 percent, with the greatest decrease in pharmaceutical chemistry and the smallest decrease in hospital pharmacy. In 1981, 1,257 students were full-time students in Ph.D. programs, representing an increase of 5.4 percent in comparison to the M.S. programs. The number of women increased 15.4 percent. It is concluded that while an increase in total enrollment in graduate pharmacy programs has occurred, the rate of increase has slowed over the last several years. (SW)

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AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY

ENROLLMENT REPORT ON GRADUATE

DEGREE PROGRAMS IN PHARMACY, FALL 1981

By

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Director of Research

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ENROLLMENT REPORT ON GRADUATE DEGREE PROGRAMS, FALL 1981

The following highlights the results of the Enrollment Survey of Graduate Degree Programs conducted by the American Association of Colleges of Pharmacy in the fall, 1981. The report documents graduate enrollments at the 52 pharmacy schools with graduate programs throughout the country. The total graduate enrollments in pharmacy is now at 2,961, showing only a slight increase since 1980. This small increase, 0.6%, continues a climb in enrollments totaling 45.9% since 1971-72. However, Table XIV shows that the rate of increase is slowing down compared to the last several years.

M.S. Full-Time Enrollments

The figures of Table I show a slight decline of 6.8% in the total full-time students enrolled in Master of Science programs since last year's report. This decline contains a 9.2% drop by men and a much smaller 2.8% decrease by women. Examining these numbers means that, for 1981, 778 students were enrolled as full-time students in Master of Science programs. By discipline, the average decline was 6.1%, with the greatest decrease in Pharmaceutical Chemistry at 12.1% and the smallest decrease in Hospital Pharmacy at 1.2%. Pharmacognosy is the only discipline that increased between 1980 and 1981 with a nominal increase of 2 students. Specifically, the declines were: Pharmaceutics 7.5%; Pharmaceutical Chemistry 12.1%; Pharmacology 8.2%; Pharmacy Administration 5.2%; and Hospital Pharmacy 1.2%. The school with the largest number of full-time Master of Science students was the University of Georgia (31 students).

Ph.D. Full-Time Enrollment

Table III shows that 1,257 students were full-time students in Ph.D. programs in 1981. In contrast to the Master of Science programs, full-time enrollments in Ph.D. programs increased a total of 5.4%. Interestingly, the number of women increased 15.4%. Only two disciplines declined in total enrollment. These are Pharmacognosy by 4.3% and Pharmacy Administration by 4.1%. The remaining four disciplines increased by an average of 13.7%. This figure, however, is misleading in that Hospital Pharmacy increased from two to three students, or 50.0%, thereby skewing the overall increase. Excluding Hospital Pharmacy, the overall increase averaged 6.3%. By category the increases were: Pharmaceutics 6.1%; Pharmaceutical Chemistry 6.7%; Pharmacology 6.1%; and Hospital Pharmacy 50%.

Part-Time M.S. and Ph.D. Enrollment

Table V depicts the part-time graduate students in M.S. and Ph.D. programs. The table indicates that the number of students seeking an M.S. degree has gone from 762 in 1980 to 774 in 1981. In contrast, the number of part-time Ph.D. candidates has increased by 30 students to 182. This means that in total, there is a net increase in the number of students seeking part-time degrees, rising from 914 in 1980 to 926 in 1981. By discipline, (Table VI), three disciplines increased from 1980: Pharmaceutics 4.6%; Pharmacology 5.2%; and Pharmacy Administration by 28.7%. The last category, Pharmacy Administration, rose from 80 students to 103 students. Three disciplines saw a decline since 1980: Pharmaceutical Chemistry 2.0%; Pharma-

cognosy by 1 student and Hospital Pharmacy 14.7%.

Female Enrollment

While the overall female enrollment in full-time M.S. programs declined by 2.8% from 1980, there are noticeable increases in a number of disciplines. Specifically, women increased by: 6 students in Pharmaceutical Chemistry; 2 students for Pharmacognosy; and 2 students in Hospital Pharmacy. In these same categories, the number of male students either remained stable or declined since 1980.

The enrollment of women in Ph.D. programs rose almost three times the rate as the total enrollment. That is, women enrollment in doctoral programs increased 15.4% compared to the general enrollment increase of 5.4% from 1980. Women made the most noticeable gain in Pharmacology by increasing 29%.

Minority Enrollment

Between 1980 and 1981 the total number of minority students seeking a Master of Science degree on a full-time basis remains steady at 301 students. A change, however, can be seen in the composition of the minority students. Only Blacks saw the same number of students between 1980 and 1981 at 19. Hispanics delcined by 15 students, while the American Indians dropped by 8 students. Asian Americans increased from 1 student to 15 and the foreign student category also increased by 8 students. As a percentage of all M.S. students, Blacks rose by 0.2% since 1980, while the remaining categories all declined.

Minority enrollment in doctoral programs increased by 35 students overall since 1980. This increase is seen in Asian Americans by 3 students, and foreign students by 42 students. Both Black and Hispanic students declined in number since 1980. The 1980 and 1981 reports both show that there are no students of American Indian descent enrolled full-time in any doctoral program.

Geographic Distribution of Students

Compared to 1980, the geographic distribution of students indicates a decline of 2.3% of those students attending schools in their own state. A decline of 0.4% occurs in students attending schools in other states, and a 0.1% decrease in the number of students attending Canadian schools. Foreign students increased 2.8% over 1980. The five schools which have the highest number of students from their own states are: University of Connecticut (40 students), University of California (39 students), Purdue University (35 students), University of Wisconsin (35 students) and the Ohio State University (32 students). The schools which draw the largest number of students from out-of-state are: Purdue University (73 students), University of Kansas (58 students), University of Wisconsin (34 students), Ohio State University (31 students), and the University of Minnesota (28 students). Three schools draw both the highest from their own state and from out-of-state: Purdue University, University of Wisconsin and Ohio State University.

Financial Support Programs

Table XII shows information concerning financial aid to students. The table shows that, in comparison to 1980, the number of schools offering the types of assistance have declined in five of the nine categories (Teaching, Research, Internship, other Pre-doctoral and Post-doctoral). Three categories, (external sources, non-service and general university), saw an increase in the number of schools offering assistance. Only the number of instructorships remained constant since 1980. In line with the decrease in the number of schools offering assistance, the total number of stipends available also declined. In total, there are 2,087 stipends available as opposed to 2,177 in 1980. The largest decline was seen in a reduction of 68 research assistantships and 61 non-service categories. The smallest decline came in the general university funds. The only category which saw an increase was in the area of pre-doctoral assistance, which rose by 20 stipends.

Even though the total number of stipends and the number of schools offering assistance has declined, the dollar value of the stipends has increased by an average of 10.8%.

Conclusion

The data in the Graduate Enrollment Report show both heartening signs and areas of potential concern. While an increase has occurred in total enrollment, the rate of increase has slowed over the last several years. Within this general increase, the data indicate a decline in the number of Master students seeking full-time degrees. The data show that the number of Ph.D. full-time students has increased by 5.4%, and the number of part-time students by a substantial 19.7%.

Women continue to make gains as a percentage of the total enrollment. In 1980, women constituted 37.6% of full-time M.S. students, and this rose to 39.0% in 1981. Women Ph.D. candidates rose from 25.5% in 1980 to 28.0% in 1981.

The information on financial support also sends mixed signals. While the total number of schools offering support and the total number of stipends available have both declined, students are receiving, on the average, greater support in 1981 than in 1980. The data show that for 1980 the lowest stipend was $300 versus $325 in 1981. Likewise, the highest stipend in 1980 was $23,333 versus $24,750 in 1981.

A special note of appreciation is extended to Ms. Patricia Cilley and the participating schools for their efforts.

Figure 1: Definitions of Discipline Categories

Pharmacy includes: pharmaceutics, industrial pharmacy, clinical pharmacy, drug information.

Pharmaceutical Chemistry includes: clinical chemistry, radiopharmacy, bionucleonics, medicinal chemistry, radiological health.

Pharmacognosy includes: molecular and quantum biology, microbiology.

Pharmacology includes: biochemical pharmacology, toxicology, neuropharmacology, psychopharmacology, cardiovascular pharmacology, autonomic pharmacology.

Pharmacy Administration includes: hospital pharmacy administration, history of pharmacy, social studies of pharmacy.

Hospital Pharmacy includes: hospital pharmacy only.

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Table I: Fall 1981 Full-Time Graduate Enrollment in Masters Programs[a,b]

Schools & Colleges by State	Pharm.		Ph.Chem.		Phcog.		Phcol.		Ph.Adm.		Hosp.Ph.		Total		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Auburn U.	2	2	3	0	0	0	3	0	2	0	0	0	10	2	12
Arizona, U. of	0	0	1	2	0	0	12	11	2	0	0	0	15	13	28
Arkansas Med. Center, U. of	0	0	2	0	0	0	0	0	0	0	2	2	4	2	6
Pacific, U. of the	4	1	0	0	0	0	2	2	0	0	0	0	6	3	9
Southern California, U. of	0	1	(8)	1(6)	0	0	0	2	0	0	0	0	8	10	18
Colorado, U. of	2	0	2	0	0	0	2	0	1	2	2	0	9	2	11
Connecticut, U. of	4	2	1	1	5	1	5	3	2	2	0	0	17	9	26
Florida A&M U.	0	0	0	0	0	0	5	4	0	0	0	0	5	4	9
Florida, U. of	1	1	0	0	0	0	0	0	0	0	5	2	6	3	9
Georgia, U. of	10	2	3	3	0	0	6	3	4	0	0	0	23	8	31
Idaho State U.	0	0	0	0	1	1	2	1	0	0	0	0	3	2	5
Illinois, U. of	2	0	(4)	(4)	0	2	0	0	4	2	1	0	11	8	19
Butler U.	0	0	0	0	0	0	1	1	0	0	1	0	2	1	3
Purdue U.	2	4	5	9	0	0	1	2	0	0	1	1	9	16	25
Iowa, U. of	2	2	2	0	0	0	0	0	0	0	4	4	8	6	14
Kansas, U. of	1	0	0	0	0	0	0	0	0	0	8	5	9	5	14
Northeast Louisiana U.	0	0	0	0	0	0	0	(1)	0	0	(1)	0	1	1	2
Maryland, U. of	3	0	0	0	0	0	0	2	0	0	4	1	7	3	10
Massachusetts Coll. of Pharm.	5	4	7	2	1	0	2	3	0	0	3	1	18	10	28
Northeastern U.	0	1	4	3	0	1	2	3	0	0	1	3	7	11	18
Michigan, U. of	3	0	1	3	0	0	0	0	0	0	0	0	4	3	7
Wayne State U.	1	0	1	0	0	0	1	0	4	0	2	0	9	0	9
Minnesota, U. of	0	0	0	0	1	3	0	0	3	4	7	5	11	12	23
Mississippi, U. of	3	0	1	1	0	1	1	1	4	7	0	0	9	10	19
Missouri-Kansas City, U. of	3	1	3	1	0	0	2	0	2	0	0	0	10	2	12
Montana, U. of	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Nebraska, U. of	0	1	2	1	0	0	3	2	0	0	0	0	5	4	9
Rutgers U.	2	0	1	1	1	0	2	5	0	0	0	0	6	6	12
Arnold & Marie Schwartz, LIU	5	8	0	0	0	0	0	0	7	1	1	0	13	9	22
St. John's U.	6	5	1	0	0	0	6	2	1	1	0	0	14	8	22
State U. of NY at Buffalo	0	0	(1)	(2)	0	0	0	0	0	0	0	0	1	2	3
North Carolina, U. of	5	3	3	2	0	0	0	0	0	1	11	9	19	15	34
North Dakota State U.	0	0	0	1	0	0	3	0	0	0	4	3	7	4	11
Ohio State U.	4	1	0	0	0	0	0	1	7	1	12	6	23	9	32
Cincinnati, U. of	4	3	0	2	0	0	1	1	0	0	0	0	5	6	11

Toledo, U. of	2	1	0	1	1	2	3	2	0	0	8	2	14	8	22
Oklahoma, U. of	3	0	4	1	0	0	1	0	0	0	1	0	9	1	10
Oregon State U.	0	3	3	1	0	0	3	1	0	0	4	2	10	7	17
Duquesne U.	4	1	6	2	0	0	4	5	0	0	0	0	14	8	22
Philadelphia Coll. of Pharm.	3	2	2	2	2	0	5	2	0	0	0	0	12	6	18
Temple U.	1	3	8	6	0	0	9	1	0	0	1	0	19	10	29
Pittsburgh, U. of	1	1	0	1	0	0	0	0	0	0	0	0	1	2	3
Rhode Island, U. of	5	1	1	3	2	1	5	0	0	0	0	0	13	5	18
South Carolina, U. of	3	1	3	1	0	0	0	1	5	3	1	1	12	7	19
Tennessee, U. of	(5)	(0)	0	0	(1)	0	0	0	0	0	0	0	6	0	6
Houston, U. of	9	1	5	2	0	0	3	3	0	0	5	2	22	8	30
Texas at Austin, U. of	0	3	0	3	0	0	2	2	0	0	0	0	2	8	10
Utah, U. of	0	0	0	0	0	0	0	0	0	0	2	1	2	1	3
Virginia Commonwealth U.	3	1	1	0	0	0	0	0	0	0	0	0	4	1	5
Washington, U. of	10	8	1	0	0	0	0	0	0	0	0	0	11	8	19
Washington State U.	0	1	1	0	1	0	1	2	0	0	0	0	3	3	6
West Virginia U.	1	3	0	1	0	0	0	0	0	1	0	0	1	5	6
Wisconsin-Madison, U. of	0	0	0	0	0	0	0	0	0	0	5	6	5	6	11
TOTALS	124	72	91	69	16	12	98	70	48	25	97	56	474	304	778

[a]The areas included in each general category are listed in Figure 1.

[b]Figures enclosed in parentheses represent students in a pharmaceutical sciences program offered by a department of the parent institution other than its college of pharmacy.

Table II: Fall 1981 Minority Full-Time Graduate Enrollment in Masters Programs [a,c]

Schools & Colleges by State	Pharm.		Ph.Chem.		Ph.cog.		Pcol.		Ph.Adm.		Hosp.Ph.		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	TOTAL
Auburn U.	1F	1F							1F				2	1	3
Arizona, U. of			1F	1F			10 2F	1F					4	2	6
Pacific, U. of the	2F	1B					1F	1F					3	2	5
Southern California, U. of		1F	8F	5F				2F					8	8	16
Colorado, U. of	1A 1F												2	0	2
Connecticut, U. of	3F	2F					1B	1F					4	3	7
Florida, A & M U.							4B 1F	3B					5	3	8
Florida, U. of	1F	1F											1	1	2
Georgia, U. of	7F	1F	3F				1B	1F					11	2	13
Illinois, U. of	1F			1A 3F		1A 1F							1	6	7
Butler U.								1F					0	1	1
Purdue U.	1B	3F	1A 1F	1B 3F			1F						4	7	11
Iowa, U. of	2F	2F	1F									1B	3	3	6
Kansas, U. of											1F		1	0	1
Northeast Louisiana U.								1F					0	1	1
Maryland, U. of	2F												2	0	2
Massachusetts Coll.of Pharm.	3F	2B 2F	3F	2F	1F			1B					7	7	14
Northeastern U. [b]		1F	2F	1F		1F	1F	2F				2F	3	7	10
Michigan, U. of	3F		1F	2F									4	2	6
Wayne State U.	1F		1F				1B		1F				4	0	4
Minnesota, U. of						1A 1F			2F	1F			2	3	5
Mississippi, U. of	1F			1F		1F	1F	1B					2	3	5
Missouri-Kansas City, U. of	3F	1F		1F									3	2	5
Montana, U. of								1F					0	1	1
Nebraska, U. of		1F	1F	1A			1F	1F					2	3	5
Arnold & Marie Schwartz, LIU	5F	4F							2B 3F				10	4	14
St. John's U.	5F	3F	1F				1B 2F	1F	1F	1F			10	5	15
State U. of NY at Buffalo				2F									0	2	2
North Carolina, U. of	1F	3F										1F	1	4	5
North Dakota State U.				1F			3F						3	1	4
Ohio State U.	4F	1F						1F	1B		1A	1A 2F	6	5	11
Cincinnati, U. of	4F	3F		2F			1F						5	5	10
Toledo, U. of					1F	1F		1F			1F		2	2	4
Oklahoma, U. of	3F		3F	1A									6	1	7
Oregon State U. [b]		3F	2F	1F			1F						3	4	7
Duquesne U.	4F	1F	5F										9	1	10
Philadelphia Coll.of Pharm.		1A		1F	1F								1	2	3
Temple U.	1F	3F		1F									1	4	5
Rhode Island, U. of	3F	1F	1F	1F									4	2	6
South Carolina, U. of	1F	1F	3F							1B 1F		1F	4	4	8
Houston, U. of	2A 5F	1F	5F	2F			3F	1A 1F			1H	1B 1Q	16	7	23
Texas at Austin, U. of		3F		2F				1A 1Q					0	7	7
Virginia Commonwealth U.	2F												2	0	2
Washington, U. of	1F	2F											1	2	3
Washington State U.		1F	1F		1F			2F					2	3	5
West Virginia U.	1F	2F											1	2	3
Wisconsin-Madison, U. of												1A	0	1	1

Totals:															
B = Black American	1	0	0	0	0	0	8	5	3	1	0	1	12	7	19
H = Hispanic American	0	3	0	1	0	0	0	0	0	0	1	1	1	5	6
I = American Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A = Asian American	3	1	1	3	0	2	0	2	0	0	1	2	5	10	15
O = Other American	0	0	0	0	0	0	1	1	0	0	0	1	1	2	3
F = Foreign	71	48	43	32	4	5	18	18	8	3	2	6	146	112	258
GRAND TOTALS	75	52	44	36	4	7	27	26	11	4	4	11	165	136	301

[a] The areas included in each general category are listed in Figure 1.

[b] No minority breakdown except "foreign student" given by this school.

[c] Underscored numbers indicate female students

Table III: Fall 1981 Full-Time Graduate Enrollment in Ph.D. Programs[a,b]

Schools & Colleges by State	Pharm. M	Pharm. F	Ph.Chem. M	Ph.Chem. F	Phcog. M	Phcog. F	Phcol. M	Phcol. F	Ph.Adm. M	Ph.Adm. F	Hosp.Ph. M	Hosp.Ph. F	Total M	Total F	TOTAL
Auburn U.	0	(1)	0	0	0	0	(1)	0	0	0	0	0	(1)	(1)	(2)
Arizona, U. of	6	0	4	1	0	0	7	2	1	1	0	0	18	4	22
California, U. of	17	9	30	13	0	0	0	0	0	0	0	0	47	22	69
Pacific, U. of the	2	1	1	1	0	0	2	1	0	0	0	0	5	3	8
Southern California, U. of	8	2	11	6	0	0	1	1	1	0	0	0	21	9	30
Colorado, U. of	1	0	5	0	0	0	5	3	1	0	0	0	12	3	15
Connecticut, U. of	14	9	8	3	5	1	11	9	0	0	0	0	38	22	60
Florida, U. of	11	3	11	4	0	0	0	0	3	1	0	0	25	8	33
Georgia, U. of	4	2	2	0	0	0	0	1	1	0	0	0	7	3	10
Illinois, U. of	10	4	(11)	(8)	10	2	0	0	0	0	0	0	20(11)	6(8)	45
Purdue U.	25	15	37	17	3	0	15	4	0	0	0	1	77	37	114
Iowa, U. of	23	5	6	0	5	0	0	0	2	0	0	0	36	5	41
Kansas, U. of	23	11	27	7	0	0	18	6	0	0	1	0	69	24	93
Kentucky, U. of	11	5	11	3	0	0	1	2	0	0	0	0	23	10	33
Northeast Louisiana U.	(4)	0	(3)	0	0	0	(4)	(1)	(1)	0	0	0	(12)	(1)	(13)
Maryland, U. of	2	0	1	0	0	0	3	6	0	0	0	0	6	6	12
Massachusetts Coll. of Pharm.	1	0	1	1	1	1	0	1	0	0	0	0	3	3	6
Northeastern U.	0	0	12	2	0	0	7	5	0	0	0	0	19	7	26
Michigan, U. of	8	6	23	8	2	1	0	0	0	0	0	0	33	15	48
Wayne State U.	1	0	0	0	0	0	0	1	0	0	0	0	1	1	2
Minnesota, U. of	10	5	13	8	2	0	0	0	15	6	0	0	40	19	59
Mississippi, U. of	1	1	1	0	2	1	2	1	3	2	0	0	9	5	14
Missouri-Kansas City, U. of	0	0	1	0	0	0	2	2	0	0	0	0	3	2	5
Nebraska, U. of	2	3	4	1	0	0	2	0	0	0	0	0	8	4	12
Rutgers U.	6	2	1	0	5	1	5	4	0	0	0	0	17	7	24
St. John's U.	2	2	0	0	0	0	0	2	0	0	0	0	2	4	6
State U. of NY at Buffalo	(21)	(4)	(20)	(1)	0	0	(12)	(2)	0	0	0	0	(53)	(7)	(60)
North Carolina, U. of	1	0	7	1	0	0	0	0	3	0	0	0	11	1	12
North Dakota State U.	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
Ohio State U.	10	5	19	9	0	0	13	6	0	0	0	0	42	20	62
Cincinnati, U. of	3	0	0	0	0	0	2	1	0	0	0	0	5	1	6
Oklahoma, U. of	0	1	1	0	0	0	2	1	0	0	0	0	3	2	5
Oregon State U.	4	1	1	1	1	0	3	1	0	0	1	0	10	3	13
Philadelphia Coll. of Pharm.	1	3	4	1	1	0	3	2	0	0	0	0	9	6	15
Temple U.	4	0	1	1	0	0	5	0	0	0	0	0	10	1	11
Pittsburgh, U. of	3	2	5	1	6	2	7	4	0	0	0	0	21	9	30
Rhode Island, U. of	2	1	3	1	1	0	2	0	0	0	0	0	8	2	10
South Carolina, U. of	0	0	1	0	0	0	1	0	0	0	0	0	2	0	2
Tennessee, U. of	(1)	0	(3)	0	0	(2)	(10)	(2)	0	0	0	0	(14)	(4)	(18)
Texas at Austin, U. of	11	4	5	2	0	0	12	2	0	1	0	0	28	9	37
Utah, U. of	7	4	4	3	0	0	4	4	0	0	0	0	15	11	26
Virginia Commonwealth U.	7	2	8	4	0	0	0	0	0	0	0	0	15	6	21
Washington, U. of	4	5	14	2	1	0	0	0	0	0	0	0	19	7	26
Washington State U.	3	1	2	0	1	1	3	1	0	0	0	0	9	3	12
West Virginia U.	5	0	1	0	0	0	0	0	0	0	0	0	6	0	6
Wisconsin-Madison, U. of	24	13	11	1	8	4	14	2	4	1	0	0	61	21	82
TOTALS	303	132	334	111	51	16	180	80	35	12	2	1	905	352	1257

[a] The areas included in each general category are listed in Figure 1.

[b] Figures enclosed in parentheses represent students in a pharmaceutical sciences program offered by a department of the parent institution other than its college of pharmacy.

Table IV: Fall 1981 Minority Full-Time Graduate Enrollment in Ph.D. Programs[a,c]

Schools & Colleges by State	Pharm.		Ph.Chem.		Ph.cog.		Phcol.		Ph.Adm.		Hosp.Ph.		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	TOTAL
Auburn U.		1F					1F						1	1	2
California, U. of	6F	1A 3F	1H 2A 4F	3F									13	7	20
Pacific, U. of the	2F	1F	1F				1F	1F					4	2	6
Southern California, U. of	4F	1A	1A 3F	1A 3F									8	5	13
Colorado, U. of			1F						1F				2	0	2
Connecticut, U. of	2A 7F	4F	1F					1A 1F					10	6	16
Florida, U. of	1H 3F	2F	1F						1F				6	2	8
Georgia, U. of	2F	2F						1F					2	3	5
Illinois, U. of	8F	4F	2F	1A 3F	1H 6F	2F							17	10	27
Purdue U.	2B 1H 1A 1F	2H 2A 5F	1H 7F	1H 1A 6F			1H 4F					1B	18	18	36
Iowa, U. of	13F	1A	2F						1F				16	1	17
Kansas, U. of	12F	6F	7F	3F			2F	1F					21	10	31
Kentucky, U. of	1B 4F	2F	1B 8F	1F									14	3	17
Northeast Louisiana U.	3F		3F										6	0	6
Maryland, U. of	1F												1	0	1
Massachusetts Coll.of Pharm.	1F			1F				1A					1	2	3
Northeastern U.[b]			2F				1F	1F					3	1	4
Michigan, U. of	1A 10 3F	6F	2A 20 5F	1B 1A 3F	1H 1F								16	11	27
Wayne State U.	1F							1F					1	1	2
Minnesota, U. of	8F	4F	1A 3F	2F	2F				1F	1F			15	7	22
Mississippi, U. of					1F	1F				1B			1	2	3
Missouri-Kansas City, U. of			1A										1	0	1
Nebraska, U. of		2F	3F				1F						4	2	6
Rutgers U.	5A	1F			1F	1F							6	2	8
St. John's U.	2F	1A 1F											2	2	4
State U. of NY at Buffalo	2A 7F	2F	4F				5F	1A					18	3	21
North Carolina, U. of			1F										1	0	1
North Dakota State U.							1F						1	0	1
Ohio State U.	6F	2F	9F	1A 3F			1B 1A	3F					17	9	26
Cincinnati, U. of	1F												1	0	1
Oklahoma, U. of							1F	1A					1	1	2
Oregon State U.[b]	3F		1F	1F									4	1	5
Philadelphia Coll.of Pharm.			1A 2F	1A				1F					3	2	5
Pittsburgh, U. of	3F	2F	2F		6F	2F		1F					11	5	16
Rhode Island, U. of	1F		2F		1F								4	0	4
Tennessee, U. of	1F						2F						3	0	3
Texas at Austin, U. of	1H 4F		1H 3F	1F			1H 2F	10		1F			12	3	15
Utah, U. of	1A 4F	1A 2F	1F	1A 2F				1F					6	7	13
Virginia Commonwealth U.	3F	1F	1F										4	1	5
Washington, U. of	1A	1F	2F	1A									3	2	5
Washington State U.	2F		1F			1F							3	1	4
West Virginia U.	2F												2	0	2
Wisconsin-Madison, U. of	1A 10F	3F	2A 2F		1A 3F	2F	1F	1F					20	8	28
Totals:															
B = Black American	3	0	1	1	0	0	1	0	0	1	0	1	5	3	8
H = Hispanic American	3	2	3	1	2	0	2	0	0	0	0	0	10	3	13
I = American Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A = Asian American	14	7	10	8	1	0	1	4	0	0	0	0	26	19	45
O = Other American	1	0	2	0	0	0	0	1	0	0	0	0	3	1	4
F = Foreign	128	59	84	32	21	9	22	13	4	2	0	0	259	115	374
GRAND TOTALS	149	68	100	42	24	9	26	18	4	3	0	1	303	141	444

[a] The areas included in each general category are listed in Figure 1.

[b] No minority breakdown except "foreign student" given by this school.

[c] Underscored numbers indicate female students

Table V: Fall 1981 Part-Time Enrollments in Graduate Programs

Schools & Colleges by State	M.S.	Ph.D.	TOTAL
Auburn U.	5	0	5
Arizona, U. of	16	0	16
Arkansas Medical Center, U. of	5	0	5
Pacific, U. of the	6	3	9
Florida A&M U.	3	0	3
Florida, U. of	1	1	2
Georgia, U. of	1	2	3
Idaho State U.	1	0	1
Illinois, U. of	3	0	3
Butler U.	19	0	19
Purdue U.	0	4	4
Iowa, U. of	1	1	2
Kansas, U. of	1	1	2
Northeast Louisiana U.	3	0	3
Maryland, U. of	10	22	32
Massachusetts College of Pharmacy	25	0	25
Northeastern U.	169	2	171
Wayne State U.	29	2	31
Minnesota, U. of	4	4	8
Mississippi, U. of	6	15	21
Missouri-Kansas City, U. of	18	7	25
Nebraska, U. of	9	8	17
Rutgers U.	21	21	42
Arnold & Marie Schwartz, LIU	151	0	151
St. John's U.	142	55	197
State U. of NY at Buffalo	1	3	4
North Carolina, U. of	4	2	6
North Dakota State U.	2	1	3
Ohio State U.	1	2	3
Cincinnati, U. of	4	2	6
Toledo, U. of	7	0	7
Oklahoma, U. of	2	0	2
Oregon State U.	2	0	2
Duquesne U.	14	4	18
Philadelphia College of Pharmacy	5	5	10
Temple U.	17	8	25
Pittsburgh, U. of	1	2	3
Rhode Island, U. of	4	3	7
South Carolina, U. of	15	0	15
Tennessee, U. of	1	0	1
Houston, U. of	6	0	6
Texas at Austin, U. of	1	1	2
Utah, U. of	5	0	5
Virginia Commonwealth U.	3	1	4
TOTALS	744	182	926

Table VI: Fall 1981 Graduate Part-Time Enrollments by Discipline[a]

Schools & Colleges by State	Pharm.	Ph.Chem.	Phcog.	Pcol.	Ph.Adm.	Hosp.Ph.	TOTAL
Auburn U.	0	1	0	1	2	1	5
Arizona, U. of	0	0	0	9	6	1	16
Arkansas Medical Center, U. of	0	5	0	0	0	0	5
Pacific, U. of the	3	4	0	2	0	0	9
Florida A&M U.	0	0	0	3	0	0	3
Florida, U. of	1	0	0	0	0	1	2
Georgia, U. of	1	0	0	0	2	0	3
Idaho State U.	0	0	0	1	0	0	1
Illinois, U. of	3	0	0	0	0	0	3
Butler U.	0	1	0	9	0	9	19
Purdue U.	2	1	0	0	0	1	4
Iowa, U. of	1	0	0	0	0	1	2
Kansas, U. of	0	0	0	1	0	1	2
Northeast Louisiana U.	0	0	0	1	0	2	3
Maryland, U. of	11	6	1	8	0	6	32
Massachusetts College of Pharmacy	0	0	0	12	11	2	25
Northeastern U.	0	62	0	59	0	50	171
Wayne State U.	2	0	0	2	3	24	31
Minnesota, U. of	4	0	0	0	0	4	8
Mississippi, U. of	1	8	2	5	5	0	21
Missouri-Kansas City, U. of	4	8	0	9	4	0	25
Nebraska, U. of	3	12	0	2	0	0	17
Rutgers U.	23	4	4	11	0	0	42
Arnold & Marie Schwartz, LIU	87	0	0	0	29	35	151
St. John's U.	91	11	0	69	26	0	197
State U. of New York at Buffalo	0	4	0	0	0	0	4
North Carolina, U. of	3	0	0	0	0	3	6
North Dakota State U.	0	0	0	2	0	1	3
Ohio State U.	0	0	0	0	3	0	3
Cincinnati, U. of	5	1	0	0	0	0	6
Toledo, U. of	0	0	0	0	0	7	7
Oklahoma, U. of	0	0	0	0	0	2	2
Oregon State U.	0	0	0	0	0	2	2
Duquesne U.	6	6	0	6	0	0	18
Philadelphia College of Pharmacy	6	1	1	2	0	0	10
Temple U.	9	5	0	4	0	7	25
Pittsburgh, U. of	1	0	0	2	0	0	3
Rhode Island, U. of	1	1	0	3	2	0	7
South Carolina, U. of	0	0	0	0	5	10	15
Tennessee, U. of	0	0	1	0	0	0	1
Houston, U. of	1	2	0	0	0	3	6
Texas at Austin, U. of	1	1	0	0	0	0	2
Utah, U. of	0	0	0	0	5	0	5
Virginia Commonwealth U.	2	2	0	0	0	0	4
TOTALS	272	146	9	223	103	173	926

[a] The areas included in each general category are listed in Figure 1.

Table VII: Previous Degrees of Full- and Part-Time Graduate Students, Fall 1981

M.S. STUDENTS	Full-Time			Part-Time		
	American	Canadian	Foreign	American	Canadian	Foreign
Pharmacy degree from school now attending	179	0	11	237	0	5
Pharmacy degree from other U.S. school	133	0	12	169	0	6
Pharmacy Degree from foreign school	6	1	180	57	0	20
Non-Pharmacy degree from U.S. School	196	0	22	221	0	4
Non-Pharmacy degree from foreign school	2	2	33	14	0	10
TOTALS	516	3	258	698	0	45
PH.D. STUDENTS						
Pharmacy degree from school now attending	135	0	21	30	0	0
Pharmacy degree from other U.S. school	207	0	33	17	0	0
Pharmacy degree from foreign school	16	3	210	16	1	8
Non-Pharmacy degree from U.S. school	502	0	45	100	0	2
Non-Pharmacy degree from foreign school	10	1	63	2	0	6
TOTALS	870	4	372	165	1	16

Table VIII: Fall 1981 Geographic Origin of Full-Time Graduate Students

Schools & Colleges by State	Own State	Other State	Canada	Foreign Country	TOTAL
Auburn U.	5	4	0	5	14
Arizona, U. of	28	16	0	5	49
Arkansas Medical Center, U. of	6	0	0	0	6
California, U. of	39	14	0	16	69
Pacific, U. of the	5	2	0	10	17
Southern California, U. of	17	4	0	27	48
Colorado, U. of	22	1	0	3	26
Connecticut, U. of	40	27	0	19	86
Florida A&M U.	5	3	0	1	9
Florida, U. of	32	1	0	9	42
Georgia, U. of	17	7	1	16	41
Idaho State U.	4	1	0	0	5
Illinois, U. of	27	7	0	30	64
Butler U.	0	2	0	1	3
Purdue U.	35	73	0	31	139
Iowa, U. of	17	17	0	21	55
Kansas, U. of	17	58	0	32	107
Kentucky, U. of	2	16	0	15	33
Northeast Louisiana U.	6	2	0	7	15
Maryland, U. of	10	9	0	3	22
Massachusetts College of Pharmacy	14	7	0	13	34
Northeastern U.	20	10	0	14	44
Michigan, U. of	12	18	0	25	55
Wayne State U.	6	0	0	5	11
Minnesota, U. of	29	28	1	24	82
Mississippi, U. of	14	13	0	6	33
Missouri-Kansas City, U. of	8	4	0	5	17
Montana, U. of	0	0	0	1	1
Nebraska, U. of	8	3	0	10	21
Rutgers U.	30	3	0	3	36
Arnold & Marie Schwartz, LIU	10	0	0	12	22
St. John's U.	8	2	0	18	28
State U. of New York at Buffalo	30	13	2	18	63
North Carolina, U. of	17	23	0	6	46
North Dakota State U.	5	2	0	5	12
Ohio State U.	32	31	0	31	94
Cincinnati, U. of	6	0	0	11	17
Toledo, U. of	17	1	0	4	22
Oklahoma, U. of	6	2	0	7	15
Oregon State U.	6	12	0	12	30
Duquesne U.	12	0	0	10	22
Philadelphia College of Pharmacy	19	9	0	5	33
Temple U.	28	7	0	5	40
Pittsburgh, U. of	16	1	0	16	33
Rhode Island, U. of	6	11	0	11	28
South Carolina, U. of	6	7	0	8	21
Tennessee, U. of	17	4	0	3	24
Houston, U. of	9	4	0	17	30
Texas at Austin, U. of	21	10	0	16	47
Utah, U. of	9	10	0	10	29
Virginia Commonwealth U.	6	7	0	7	20
Washington, U. of	22	17	2	4	45
Washington State U.	4	5	0	9	18
West Virginia U.	5	2	0	5	12
Wisconsin-Madison, U. of	35	34	1	23	93
TOTAL	827	564	7	630	2028

Table IX: State of Residence of American Graduate Students by Degree, Fall 1981

	Full-Time			Part-Time			TOTALS		
	M.S.	Ph.D.	Total	M.S.	Ph.D.	Total	M.S.	Ph.D.	Total
Alabama	7	3	10	4	3	7	11	6	17
Alaska	0	0	0	0	0	0	0	0	0
Arizona	15	15	30	12	0	12	27	15	42
Arkansas	6	2	8	6	2	8	12	4	16
California	12	78	90	7	3	10	19	81	100
Colorado	12	17	29	0	0	0	12	17	29
Connecticut	22	47	69	9	0	9	31	47	78
Delaware	2	1	3	0	1	1	2	2	4
District of Columbia	0	2	2	0	0	0	0	2	2
Florida	20	32	52	5	1	6	25	33	58
Georgia	15	8	23	1	1	2	16	9	25
Guam	1	0	1	0	0	0	1	0	1
Hawaii	2	0	2	0	0	0	2	0	2
Idaho	4	4	8	1	0	1	5	4	9
Illinois	25	48	73	2	1	3	27	49	76
Indiana	7	40	47	19	3	22	26	43	69
Iowa	9	13	22	1	1	2	10	14	24
Kansas	6	17	23	5	2	7	11	19	30
Kentucky	1	6	7	0	1	1	1	7	8
Louisiana	2	8	10	2	0	2	4	8	12
Maine	3	4	7	0	0	0	3	4	7
Maryland	5	18	23	5	13	18	10	31	41
Massachusetts	40	30	70	178	2	180	218	32	250
Michigan	14	32	46	31	3	34	45	35	80
Minnesota	11	30	41	3	4	7	14	34	48
Mississippi	7	8	15	4	7	11	11	15	26
Missouri	9	14	23	13	4	17	22	18	40
Montana	1	2	3	0	0	0	1	2	3
Nebraska	3	10	13	8	7	15	11	17	28
Nevada	0	2	2	0	0	0	0	2	2
New Hampshire	1	4	5	4	0	4	5	4	9
New Jersey	23	42	65	60	30	90	83	72	155
New Mexico	1	2	3	2	0	2	3	2	5
New York	34	68	102	227	48	275	261	116	377
North Carolina	14	6	20	6	2	8	20	8	28
North Dakota	6	1	7	2	1	3	8	2	10
Ohio	35	47	82	11	5	16	46	52	98
Oklahoma	4	9	13	2	0	2	6	9	15
Oregon	6	6	12	2	0	2	8	6	14
Pennsylvania	53	58	111	32	14	46	85	72	157
Rhode Island	6	5	11	8	1	9	14	6	20
South Carolina	7	1	8	14	0	14	21	1	22
South Dakota	3	1	4	2	0	2	5	1	6
Tennessee	6	15	21	2	1	3	8	16	24
Texas	17	22	39	2	1	3	19	23	42
Utah	3	11	14	5	0	5	8	11	19
Vermont	0	1	1	0	0	0	0	1	1
Virginia	2	8	10	2	1	3	4	9	13
Virgin Islands (U.S.)	1	0	1	0	0	0	1	0	1
Washington	9	25	34	0	0	0	9	25	34
West Virginia	6	3	9	0	0	0	6	3	9
Wisconsin	13	38	51	0	1	1	13	39	52
Wyoming	0	0	0	0	0	0	0	0	0
Puerto Rico	5	8	13	0	1	1	5	9	14
TOTALS	516	872	1388	699	165	864	1215	1037	2252

Table X: Enrollment of American Full-Time Graduate Students by State of Residence, Fall 1981

ALABAMA (5 + 5 = 10)
- Auburn U. 5
- Kansas, U. of 1
- Mississippi, U. of 2
- Virginia Commonwealth U. 1
- Washington, U. of 1

ARIZONA (28 + 2 = 30)
- Arizona, U. of 28
- Purdue U. 1
- Washington, U. of 1

ARKANSAS (6 + 2 = 8)
- Arkansas Medical Center 6
- Purdue U. 1
- Minnesota, U. of 1

CALIFORNIA (61 + 29 = 90)
- California, U. of 39
- Pacific, U. of the 5
- Southern California, U. of 17
- Arizona, U. of 3
- Georgia, U. of 1
- Illinois, U. of 2
- Purdue U. 2
- Kansas, U. of 3
- Massachusetts College of Pharm. 1
- Northeastern U. 1
- Michigan, U. of 3
- Mississippi, U. of 3
- Ohio State U. 1
- Oregon State U. 5
- Houston, U. of 1
- Utah, U. of 1
- Washington, U. of 3
- Wisconsin-Madison, U. of 1

COLORADO (22 + 7 = 29)
- Colorado, U. of 22
- Southern California, U. of 1
- Kansas, U. of 2
- Minnesota, U. of 2
- Nebraska, U. of 1
- Washington, U. of 1

CONNECTICUT (40 + 29 = 69)
- Connecticut, U. of 40
- Arizona, U. of 1
- California, U. of 2
- Florida A&M U. 1
- Georgia, U. of 1
- Purdue U. 3
- Northeastern U. 2
- Michigan, U. of 1
- Minnesota, U. of 1
- St. John's U. 1
- State U. of NY at Buffalo 2
- Ohio State U. 3
- Oregon State U. 1
- Rhode Island, U. of 2
- South Carolina, U. of 1
- Texas at Austin, U. of 2
- West Virginia U. 1
- Wisconsin-Madison, U. of 4

DELAWARE (0 + 3 = 3)
- North Carolina, U. of 2
- Temple U. 1

DISTRICT OF COLUMBIA (0 + 2 = 2)
- Connecticut 1
- Minnesota, U. of 1

FLORIDA (37 + 15 = 52)
- Florida A&M U. 5
- Florida, U. of 32
- Auburn U. 3
- Connecticut, U. of 1
- Purdue U. 1
- Kansas, U. of 1
- Kentucky, U. of 2
- Michigan, U. of 1
- Nebraska, U. of 1
- North Carolina, U. of 1
- South Carolina, U. of 2
- Houston, U. of 1
- Texas at Austin, U. of 1

GEORGIA (17 + 6 = 23)
- Georgia, U. of 17
- Purdue U. 2
- Kansas, U. of 1
- Mississippi, U. of 1
- State U. of NY at Buffalo 1
- North Carolina, U. of 1

GUAM (0 + 1 = 1)
- Illinois, U. of 1

HAWAII (0 + 2 = 2)
- Connecticut, U. of 1
- Wisconsin-Madison, U. of 1

IDAHO (4 + 4 = 8)
- Idaho State U. 4
- Purdue U. 1
- Washington State U. 3

ILLINOIS (27 + 46 = 73)
- Illinois, U. of 27
- California, U. of 2
- Connecticut, U. of 1
- Butler U. 1
- Purdue U. 8
- Iowa, U. of 6
- Kansas, U. of 4
- Kentucky, U. of 1
- Michigan, U. of 3
- Mississippi, U. of 1
- Missouri-Kansas City, U. of 1
- State U. of NY at Buffalo 1
- North Carolina, U. of 2
- Ohio State U. 4
- Oregon State U. 1
- Tennessee, U. of 1
- Utah, U. of 2
- Washington, U. of 1
- Washington State U. 1
- Wisconsin-Madison, U. of 5

INDIANA (35 + 12 = 47)
- Purdue U. 35
- Illinois, U. of 1
- Kansas, U. of 3
- Kentucky, U. of 2
- Mississippi, U. of 1
- State U. of NY at Buffalo 1
- Ohio State U. 2
- Wisconsin-Madison, U. of 2

IOWA (17 + 5 = 22)
- Iowa, U. of 17
- Purdue U. 2
- Kansas, U. of 1
- Minnesota, U. of 1
- North Carolina, U. of 1

KANSAS (17 + 6 = 23)
- Kansas, U. of 17
- California, U. of 1
- Minnesota, U. of 1
- Missouri-Kansas City, U. of 3
- Wisconsin-Madison, U. of 1

KENTUCKY (2 + 5 = 7)
- Kentucky, U. of 2
- Purdue U. 1
- Northeast Louisiana U. 1
- Ohio State U. 3

LOUISIANA (6 + 4 = 10)
- Northeast Louisiana U. 6
- Georgia, U. of 1
- Purdue U. 1
- Mississippi, U. of 1
- Virginia Commonwealth U. 1

MAINE (0 + 7 = 7)
- Purdue U. 2
- Massachusetts College of Pharm. 1
- Northeastern U. 1
- Rhode Island, U. of 1
- Utah, U. of 1
- Wisconsin-Madison, U. of 1

MARYLAND (10 + 13 = 23)
- Maryland, U. of 10
- Connecticut, U. of 1
- Purdue U. 1
- Kansas, U. of 1
- Massachusetts College of Pharm. 1
- Northeastern U. 1
- Minnesota, U. of 2
- State U. of NY at Buffalo 1
- North Carolina, U. of 2
- Ohio State U. 2
- Virginia Commonwealth U. 1

MASSACHUSETTS (34 + 36 = 70)
- Massachusetts College of Pharm. 14
- Northeastern U. 20
- Southern California, U. of 2
- Connecticut, U. of 7
- Florida, U. of 1
- Georgia, U. of 2
- Purdue U. 1
- Iowa, U. of 1
- Kansas, U. of 1
- Kentucky, U. of 1
- Maryland, U. of 1
- Michigan, U. of 2
- Minnesota, U. of 1
- Nebraska, U. of 1
- State U. of NY at Buffalo 1
- Ohio State U. 3
- Oregon State U. 1
- Philadelphia College of Pharm. 1
- Rhode Island, U. of 5
- South Carolina, U. of 1
- Houston, U. of 1
- Texas at Austin, U. of 1
- Washington, U. of 1

MICHIGAN (18 + 28 = 46)
- Michigan, U. of 12
- Wayne State U. 6
- Arizona, U. of 1
- Connecticut, U. of 1
- Purdue U. 6
- Iowa, U. of 2

Michigan - contd.
- Kansas, U. of 3
- Kentucky, U. of 1
- North Carolina, U. of 2
- Ohio State U. 1
- Toledo, U. of 1
- Oregon State U. 1
- Philadelphia College of Pharm. 1
- Texas at Austin, U. of 1
- Utah, U. of 1
- Washington, U. of 1
- Wisconsin-Madison, U. of 5

MINNESOTA (29 + 12 = 41)
- Minnesota, U. of 29
- California, U. of 2
- Southern California, U. of 1
- Connecticut, U. of 1
- Iowa, U. of 1
- Kansas, U. of 3
- Michigan, U. of 1
- North Dakota State U. 1
- Washington, U. of 1
- Wisconsin-Madison, U. of 1

MISSISSIPPI (14 + 1 = 15)
- Mississippi, U. of 14
- Purdue U. 1

MISSOURI (8 + 15 = 234)
- Missouri-Kansas City, U. of 8
- Arizona, U. of 2
- Purdue U. 1
- Iowa, U. of 2
- Kansas, U. of 5
- Mississippi, U. of 3
- Ohio State U. 1
- Tennessee, U. of 1

MONTANA (0 + 3 = 3)
- California, U. of 1
- Minnesota, U. of 1
- Washington, U. of 1

NEBRASKA (8 + 5 = 13)
- Nebraska, U. of 8
- Georgia, U. of 1
- Kansas, U. of 1
- Minnesota, U. of 1
- Ohio State U. 1
- Wisconsin-Madison, U.of 1

NEVADA (0 + 2 =2)
- Utah, U. of 1
- Washington State U. 1

NEW HAMPSHIRE (0 + 5 = 5)
- Connecticut, U. of 1
- Kansas, U. of 1
- Northeastern U. 1
- State U. of NY at Buffalo 1
- Texas at Austin, U. of 1

NEW JERSEY (30 + 35 = 65)
- Rutgers U. 30
- Arizona, U. of 1
- California, U. of 1
- Illinois, U. of 1
- Purdue U. 1
- Iowa, U. of 2
- Kansas, U. of 1
- Maryland, U. of 1
- Northeastern U. 1
- Michigan, U. of 1
- Minnesota, U. of 2
- State U. of NY at Buffalo 2
- North Carolina, U. of 2
- Philadelphia College of Pharm. 7

New Jersey - contd.
- Temple U. 6
- Pittsburgh, U. of 1
- Rhode Island, U. of 1
- South Carolina, U. of 1
- Texas at Austin, U. of 1
- Utah, U. of 1
- Virginia Commonwealth U. 1

NEW MEXICO (0 + 3 = 3)
- Connecticut, U. of 1
- Purdue U. 1
- North Carolina, U. of 1

NEW YORK (48 + 54 = 102)
- Arnold & Marie Schwartz, LIU 10
- St. John's U. 8
- State U. of NY at Buffalo 29
- Arizona, U. of 2
- Colorado, U. of 1
- Connecticut, U. of 6
- Florida A&M U. 1
- Idaho State U. 1
- Illinois, U. of 1
- Purdue U. 1
- Kansas, U. of 5
- Kentucky, U. of 2
- Maryland, U. of 2
- Northeastern U. 1
- Michigan, U. of 1
- Rutgers U. 2
- North Carolina, U. of 6
- Ohio State U. 2
- South Carolina, U. of 1
- Houston, U. of 1
- Texas at Austin, U. of 1
- Utah, U. of 2
- Washington, U. of 1
- Wisconsin-Madison, U. of 4

NORTH CAROLINA (17 + 3 = 20)
- North Carolina, U. of 17
- Maryland, U. of 1
- Texas at Austin, U. of 1
- Wisconsin-Madison, U. of 1

NORTH DAKOTA (5 + 2 = 7)
- North Dakota State U. 5
- Iowa, U. of 1
- Oklahoma, U. of 1

OHIO (55 + 27 = 82)
- Ohio State U. 32
- Cincinnati, U. of 6
- Toledo, U. of 17
- Arizona, U. of 1
- Connecticut, U. of 1
- Georgia, U. of 1
- Illinois, U. of 1
- Purdue U. 8
- Kansas, U. of 3
- Kentucky, U. of 2
- Northeastern U. 1
- Michigan, U. of 1
- Mississippi, U. of 2
- St. John's U. 1
- Utah, U. of 1
- Washington, U. of 1
- Wisconsin-Madison, U. of 3

OKLAHOMA (6 + 7 = 13)
- Oklahoma, U. of 6
- Arizona, U. of 1
- California, U. of 1
- Purdue U. 1
- Kansas, U. of 1
- Kentucky, U. of 1
- Minnesota, U. of 1
- State U. of NY at Buffalo 1

OREGON (6 + 6 = 12)
- Oregon State U. 6
- Kansas, U. of 1
- Kentucky, U. of 2
- Washington, U. of 2
- Wisconsin-Madison, U. of 1

PENNSYLVANIA (75 + 36 = 111)
- Duquesne U. 12
- Philadelphia College of Pharm. 19
- Temple U. 28
- Pittsburgh, U. of 16
- Arizona, U. of 2
- California, U. of 1
- Pacific, U. of the 1
- Connecticut, U. of 3
- Purdue U. 5
- Iowa, U. of 1
- Kansas, U. of 2
- Kentucky, U. of 1
- Maryland. U. of 3
- Massachusetts College of Pharm. 1
- Michigan, U. of 1
- Rutgers U. 1
- State U. of NY at Buffalo 1
- North Carolina, U. of 1
- Ohio State U. 3
- Rhode Island, U. of 2
- South Carolina, U. of 1
- Tennessee, U. of 2
- Virginia Commonwealth U. 1
- West Virginia U. 1
- Wisconsin-Madison, U. of 2

RHODE ISLAND (6 + 5 = 11)
- Rhode Island, U. of 6
- Connecticut, U. of 1
- Butler U. 1
- Kansas, U. of 1
- Massachusetts College of Pharm. 1
- Michigan, U. of 1

SOUTH CAROLINA (6 + 2 = 8)
- South Carolina, U. of 6
- North Carolina, U. of 1
- Virginia Commonwealth U. 1

SOUTH DAKOTA (0 + 4 = 4)
- Kansas, U. of 1
- Minnesota, U. of 2
- North Carolina, U. of 1

TENNESSEE (17 + 4 = 21)
- Tennessee, U. of 17
- Northeast Louisiana U. 1
- Mississippi, U. of 1
- Ohio State U. 2

TEXAS (30 + 9 = 39)
- Houston, U. of 9
- Texas at Austin, U. of 21
- Auburn U. 1
- Arizona, U. of 1
- Florida A&M U. 1
- Purdue U. 1
- Kansas, U. of 2
- Kentucky, U. of 1
- Maryland, U. of 1
- Oklahoma, U. of 1

UTAH (9 + 5 = 14)
- Utah, U. of 9
- California, U. of 2
- Michigan, U. of 1
- Oregon State U. 1
- Washington, U. of 1

VERMONT (0 + 1 = 1)
- Northeastern U. 1

VIRGINIA (6 + 4 = 10)

Virginia Commonwealth U.	6
Purdue U.	1
Kansas, U. of	1
Minnesota, U. of	1
Ohio State U.	1

VIRGIN ISLANDS (0 + 1 = 1)

Purdue U.	1

WASHINGTON (26 + 8 = 34)

Washington, U. of	22
Washington State U.	4
Purdue U.	1
Kansas, U. of	1
Michigan, U. of	1
Minnesota, U. of	3
State U. of NY at Buffalo	1
Oregon State U.	1

WEST VIRGINIA (5 + 4 = 9)

West Virginia U.	5
Kansas, U. of	1
Ohio State U.	1
Virginia Commonwealth U.	1
Washington, U. of	1

WISCONSIN (35 + 16 = 51)

Wisconsin-Madison, U. of	35
Arizona, U. of	1
California, U. of	1
Kansas, U. of	5
Minnesota, U. of	7
North Dakota State U.	1
Ohio State U.	1

PUERTO RICO (0 + 13 = 13)

Pacific, U. of the	1
Purdue U.	7
Iowa, U. of	1
Massachusetts College of Pharm.	2
Texas at Austin, U. of	1
Wisconsin-Madison, U. of	1

First number in parentheses indicates the number of resident students attending colleges in-state; the second number represents the number of resident students attending colleges in other states. Under each state are listed the colleges enrolling students from that state, with schools within that state underlined.

Table XI: Fall 1981 Country of Origin of Foreign Full-Time Graduate Students

Country	Male	Female	Total
Algeria	1	0	1
Australia	1	0	1
Bangladesh	5	1	6
Barbados	1	0	1
Brazil	1	4	5
Cameroons	3	0	3
Canada			
British Columbia	0	1	1
Manitoba	0	1	1
New Brunswick	1	0	1
Nova Scotia	1	1	2
Quebec	1	1	2
Colombia	0	1	1
Costa Rica	1	0	1
Cyprus	1	0	1
Denmark	1	0	1
Ecuador	1	0	1
Egypt	27	10	37
Ethiopia	2	1	3
Fiji	1	0	1
Ghana	5	1	6
Greece	2	1	3
Grenada	1	0	1
Honduras	0	2	2
Hong Kong	32	7	39
India	89	12	101
Indonesia	2	5	7
Iran	4	5	9
Iraq	7	6	13
Israel	1	0	1
Japan	8	3	11
Jordan	6	4	10
Kenya	3	0	3
Korea	18	6	24
Kuwait	0	1	1
Lebanon	0	2	2
Liberia	0	1	1
Libya	0	1	1
Malaysia	4	2	6
Mexico	4	1	5
Netherlands	1	0	1
Nigeria	27	10	37
Norway	1	0	1
Pakistan	6	0	6
Panama	1	2	3
Peru	1	0	1
Phillipines	0	4	4
Poland	0	1	1
Portugal	1	0	1
Saudi Arabia	15	1	16
South Africa	1	0	1
Spain	1	2	3
Sri Lanka	2	0	2
Sudan	1	0	1
Sweden	0	1	1
Syria	4	2	6
Taiwan	94	79	173
Tanzania	1	0	1
Thailand	7	25	32
Turkey	1	2	3
United Kingdom	3	1	4
Uruguay	0	1	1
Venezuela	0	11	11
Vietnam	3	4	7
West Germany	0	1	1
Zaire	1	0	1
Zambia	0	1	1
TOTAL	407	229	636

Table XII: Financial Support Programs Provided to Graduate Students in 1981-82

No.of Schools	Type of Support Program	No.Months Duration Range	≤9	10-12	Stipends Available	Dollar Value Low	High	Mean	Hours Worked Weekly Low	High	Mean
17	Non-Service Stipend	3-12	33	97	130	325	8109	4814	-	-	-
41	External Sources	1-12	40	305	350	350	24750	5445	-	-	-
52	Teaching Assistants	3-12	373	406	779	517	11136	4935	5	40	15.1
29	Research Assistants	3-12	51	258	309	505	12500	5191	0	40	17.5
9	Instructorships	9-12	6	8	14	1520	12000	8767	2	40	23.3
13	Hospital Interns	9-12	15	82	97	787	15333	8766	15	40	28.7
13	Other Pre-doctoral	8-12	8	62	70	500	16000	7136	15	40	25.0
25	Postdoctoral	6-12	12	196	208	6690	20993	13618	30	40	38.8
10	General University	4-12	6	24	30	2800	5050	4712	10	20	14.8

Auburn U.	M		M				M			M		M								
Arizona, U. of	M	D	M	D			M	D		M	D	M								
Arkansas Medical Center, U. of	M		M		M		M	D[d]				M		M						Nuclear Phar. Radio.Hlth.
California, U. of				D																
Pacific, U. of the	M	D	M	D			M	D						M	D					Clinical Pharmaceutics
Southern California, U. of	M	D	M	D			M	D		M	D			M						Radiopharmacy
Colorado, U. of	M	D	M	D			M	D		M		M								
Connecticut, U. of	M	D	M	D	M	D	M	D		M	M*	M								
Florida A&M U.							M													
Florida, U. of	M	D	M	D	M*	D*	M*	D*		M	D	M								
Georgia, U. of	M	D	M	D			M	D		M	D	M								
Idaho State U.	M		M		M		M													
Illinois, U. of	M	D	M	D	M	D						M								
Butler U.	M		M				M					M								
Purdue U.	M	D	M	D	M	D	M	D		M	D								D	Clin.Pharm.
Iowa, U. of	M	D	M	D	M	D	M*	D*		M	D	M								
Kansas, U. of	M	D	M	D			M	D				M								
Kentucky, U. of	M	D	M	D	M	D	M	D						M	D					Toxicology
Northeast Louisiana U.	M	D	M	D	M	D	M	D		M	D	M								
Maryland, U. of	M	D	M	D	M	D	M	D				M								
Massachusetts Coll. of Pharm.	M	D	M	D	M	D	M	D		M		M		M	D					Therapeutics
															D					Radiopharm.
Northeastern U.			M	D			M	D				M		M	D					Clin.Chem.
														M	D					Radiopharmaceutical Sci.
														PharmD(in pharmacy)						
Michigan, U. of	M	D	M	D	M	D														
Wayne State U.	M	D	M				M	D		M		M								
Minnesota, U. of	M	D	M	D	M	D	M*	D*		M	D	M								
Mississippi, U. of	M	D	M	D	M	D	M	D		M	D	M								
Missouri-Kansas City, U. of	M	D	M	D			M	D		M	D									
Montana, U. of	M		M		M		M			M										
Nebraska, U. of	M	D	M	D	M	D	M	D												
Rutgers U.	M	D	M	D	M	D	M	D						M	D					Toxicology
Arnold & Marie Schwartz, LIU	M						M(*)					M								
St. John's U.	M	D	M				M	D		M		M								
State U. of NY at Buffalo	M	D	M	D			M	D												
North Carolina, U. of	M	D	M	D			M*	D*		M		M								
North Dakota State U.	M		M	D	M	D	M	D		M		M								
Ohio State U.	M	D	M	D	M	D	M	D		M	D	M								
Cincinnati, U. of	M	D[fe]	M		M		M			M				M						Cosmetic Sci.
Toledo, U. of	M		M		M		M					M								
Oklahoma, U. of	M	D	M	D			M	D		M	D	M	D	M	D					Nuclear Pharm Clin.Pharm.
Oregon State U.	M		M	D	M		M							M	D					Med.Chem.

Duquesne U.	M		M	D	M		M						M			Toxicology
															D	Med.Chem.
Philadelphia Coll. of Pharm.	M	D	M	D	M	D	M	D								
Temple U.	M	D	M	D			M	D			M		M			Environmental health
Pittsburgh, U. of	M	D	M	D	M	D		D					M			Drug Info. specialist
Rhode Island, U. of	M	D	M	D	M	D	M	D	M							
South Carolina, U. of	M	D	M	D			M	D	M	D	M					
Tennessee, U. of	M	D*	M*	D*			M*	D*	M*		M*		M*		D*	Toxicology
Houston, U. of	M	D*	M	D*			M	D*	M		M					
Texas At Austin, U. of	M	D	M	D	M	D	M	D	M	D	M					
Utah, U. of	M	D	M	D			M	D	M		M	M*				
Virginia Commonwealth U.	M	D	M	D			M*	D*	M	D						
Washington, U. of	M	D	M	D			M*	D*					M		D	Med.Chem. Pharmaceutics
Washington State U.	M	D	M	D	M	D	M	D								
West Virginia U.	M	D	M	D	M		M	D*	M	D						
Wisconsin, U. of	M	D	M	D	M	D	M	D	M	D	M		M		D	Continuing Education

[a] The areas included in each general category are listed in Figure 1.

[b] An asterisk * indicates a program available in pharmaceutical sciences offered by departments of the parent university other than its college of pharmacy.

[c] An asterisk in Parentheses (*) indicates that degree programs in an area are offered both according to footnote b and also by the college of pharmacy.

[d] Program is offered jointly with the Pharmacology Department in the College of Medicine.

[e] Joint program with the College of Medicine.

Table XIV: Change in Pharmacy School Graduate Enrollments (Full- and Part-Time)

Academic Year	Schools Reporting Grad. Programs	Enrollment	From Preceding Academic Year	From 1970-71 Academic Year
1970-71	58	2029	+ 2.01	—
1971-72	57	2040	+ .54	+ .54
1972-73	56	2030	- .49	+ .05
1973-74	55	2287	+12.66	+12.72
1974-75	50	2273	- .61	+12.02
1975-76	54	2499	+ 9.94	+23.16
1976-77	55	2482	- .68	+22.33
1977-78	55	2651	+ 6.81	+30.66
1978-79	55	2776	+ 4.72	+36.82
1979-80	54	2791	+ .54	+37.55
1980-81	54	2942	+ 5.13	+45.09
1981-82	53	2961	+ .64	+45.93

U.S. COLLEGES OF PHARMACY

Professional degrees awarded: The Bachelor of Science in Pharmacy is awarded by all schools unless otherwise indicated by a single asterisk (*), which notes that the school awards only the Pharm.D. (Doctor of Pharmacy) as the first professional degree. A double asterisk (**) indicates the school offers both the B.S. Pharmacy and Pharm.D. degrees. Although all schools listed have accredited first professional degree programs, not all Pharm.D. programs have been accredited by the American Council on Pharmaceutical Education. The accreditation status of programs can be obtained by contacting the ACPE, One East Wacker Drive, Chicago, Illinois 60601, (312) 467-6222.

( ) The number in parenthesis after the school name indicates the number of years of college study generally required prior to enrolling in the school of pharmacy.

Information regarding graduate programs available in schools of pharmacy is available from the American Association of Colleges of Pharmacy, 4630 Montgomery Avenue, Suite 201, Bethesda, Maryland 20814

ALABAMA

**Auburn University (2)
School of Pharmacy
Auburn, AL 36830

Samford University (2)
School of Pharmacy
800 Lakeshore Drive
Birmingham, AL 35209

ARIZONA

University of Arizona (2)
College of Pharmacy
Tucson, AZ 85724

ARKANSAS

**University of Arkansas
for Medical Sciences (2)
College of Pharmacy
4301 West Markham
Little Rock, AR 72201

CALIFORNIA

*University of California (2)
School of Pharmacy
San Francisco, CA 94143

**University of the Pacific (1)
School of Pharmacy
751 Brookside Road
Stockton, CA 95211

*University of Southern
California (2)
School of Pharmacy
1985 Zonal Avenue
Los Angeles, CA 90033

COLORADO

University of Colorado (2)
School of Pharmacy
Ekeley W-181-E
Boulder, CO 80309

CONNECTICUT

University of Connecticut (0)
School of Pharmacy
Box U-92
Storrs, CT 06268

DISTRICT OF COLUMBIA

Howard University (2)
College of Pharmacy and
Pharmacal Sciences
2300 Fourth Street, N.W.
Washington, DC 20059

FLORIDA

Florida Agricultural and
Mechanical University (0)
School of Pharmacy
P.O. Box 367
Tallahassee, FL 32307

**University of Florida (2)
College of Pharmacy
J. Hillis Miller Health Center
Gainesville, FL 32610

GEORGIA

Mercer University
Southern School of Pharmacy
345 Boulevard, N.E.
Atlanta, GA 30312

University of Georgia (2)
School of Pharmacy
Athens, GA 30602

IDAHO

Idaho State University (1)
College of Pharmacy
Pocatello, ID 83209

ILLINOIS

University of Illinois (1)
College of Pharmacy
833 South Wood Street
P.O. Box 6998
Chicago, IL 60632

INDIANA

Butler University (2)
College of Pharmacy
46th and Sunset Avenue
Indianapolis, IN 46208

**Purdue University (1)
School of Pharmacy and
Pharmacal Sciences
W. Lafayette, IN 47907

IOWA

Drake University (0)
College of Pharmacy
28th and Forest
Des Moines, IA 50311

**University of Iowa (1)
College of Pharmacy
Iowa City, IA 52242

KANSAS

University of Kansas (2)
School of Pharmacy
Lawrence, KS 66044

KENTUCKY

**University of Kentucky (2)
College of Pharmacy
Washington & Gladstone Streets
Lexington, KY 40506

LOUISIANA

Northeast Louisiana University (2)
School of Pharmacy
700 University Avenue
Monroe, LA 71209

Xavier University of Louisiana (2)
College of Pharmacy
7325 Palmetto Street
New Orleans, LA 70125

MARYLAND

**University of Maryland (2)
School of Pharmacy
636 W. Lombard Street
Baltimore, MD 21201

MASSACHUSETTS

Massachusetts College
of Pharmacy (0)
179 Longwood Avenue
Boston, MA 02115

Northeastern University (0)
College of Pharmacy and
Allied Health Professions
360 Huntington Avenue
Boston, MA 02115

MICHIGAN

Ferris State College (2)
School of Pharmacy
901 South State Street
Big Rapids, MI 49307

**University of Michigan (0)
College of Pharmacy
Ann Arbor, MI 48109

**Wayne State University (0)
College of Pharmacy and
Allied Health Professions
5501 Second Avenue
Detroit, MI 48202

MINNESOTA

**University of Minnesota (2)
College of Pharmacy
128 Pleasant St., S.E.
Minneapolis, MN 55455

MISSISSIPPI

University of Mississippi (2)
School of Pharmacy
University, MS 38677

MISSOURI

St. Louis College of Pharmacy (0)
4588 Parkview Place
St. Louis, MO 63110

**University of Missouri-K.C. (1)
School of Pharmacy
5005 Rockhill Road
Kansas City, MO 64110

MONTANA

University of Montana (2)
School of Pharmacy
Missoula, MT 59801

NEBRASKA

**Creighton University (2)
School of Pharmacy
2542 California Street
Omaha, NE 68178

*University of Nebraska (2)
College of Pharmacy
42nd & Dewey Avenue
Omaha, NE 68105

NEW JERSEY

Rutgers University (0)
The State University of
New Jersey
College of Pharmacy

NEW MEXICO
University of New Mexico (1)
College of Pharmacy
Albuquerque, NM 87131

NEW YORK
Arnold & Marie Schwartz College
of Pharmacy & Health Sciences (0)
Long Island University
75 Dekalb Avenue
Brooklyn, NY 11201

**St. John's University (0)
College of Pharmacy and
Allied Health Professions
Grand Central & Utopia Pkwys.
Jamaica, NY 11439

**State University of New York
at Buffalo (2)
School of Pharmacy
C126 Cooke-Hochstetter Complex
Amherst, NY 14260

Albany College of Pharmacy
of Union University (0)
106 New Scotland Avenue
Albany, NY 12208

NORTH CAROLINA
The University of North Carolina
at Chapel Hill (1)
School of Pharmacy
Beard Hall 200H
Chapel Hill, NC 27514

NORTH DAKOTA
North Dakota State University (0)
College of Pharmacy
Fargo, ND 58102

OHIO
Ohio Northern University (0)
College of Pharmacy
Ada, OH 45810

Ohio State University (1)
College of Pharmacy
500 West 12th Avenue
Columbus, OH 43210

**University of Cincinnati (2)
College of Pharmacy
136 Hlth Prof Bldg
Mail Location #4
Cincinnati, OH 45267

University of Toledo (0)
College of Pharmacy
2801 West Bancroft Street
Toledo, OH 43606

OKLAHOMA
Southwestern Oklahoma State
University (2)
School of Pharmacy
100 Campus Drive
Weatherford, OK 73096

University of Oklahoma (2)
College of Pharmacy
644 Northeast 14th
Oklahoma City, OK 73104

OREGON
Oregon State University (2)
School of Pharmacy
Corvallis, OR 97331

PENNSYLVANIA
**Duquesne University (0)
School of Pharmacy
Pittsburgh, PA 15219

**Philadelphia College of Pharmacy
and Science (0)
43rd Street and Kingsessing Mall
Philadelphia, PA 19104

Temple University (2)
School of Pharmacy
3307 North Broad Street
Philadelphia, PA 19140

University of Pittsburgh (1)
School of Pharmacy
3501 Terrace Street
Pittsburgh, PA 15261

PUERTO RICO
University of Puerto Rico (1)
College of Pharmacy
Medical Sciences Campus
GPO Box 5067
San Juan, PR 00936

RHODE ISLAND
**University of Rhode Island (0)
College of Pharmacy
Kingston, RI 02881

SOUTH CAROLINA
**Medical University of South
Carolina (2)
School of Pharmacy
171 Ashley Avenue
Charleston, SC 29425

University of South Carolina (1)
College of Pharmacy
Columbia, SC 29208

TENNESSEE
**University of Tennessee (2)
College of Pharmacy
800 Madison Avenue
Memphis, TN 3810

TEXAS
Texas Southern University (0)
School of Pharmacy
3201 Wheeler Avenue
Houston, TX 77004

University of Houston (2)
College of Pharmacy
3801 Cullen Boulevard
Houston, TX 77004

**University of Texas at Austin (2)
College of Pharmacy
Austin, TX 78712

UTAH
**University of Utah (0)
College of Pharmacy
Salt Lake City, UT 84112

VIRGINIA
**Virginia Commonwealth University (2)
Medical College of Virginia
MCV Station Box 581
Richmond, VA 23298

WASHINGTON
University of Washington (2)
School of Pharmacy, BG-20
Seattle, WA 98195

Washington State University (1)
College of Pharmacy
Pullman, WA 99164

WEST VIRGINIA
West Virginia University (2)
School of Pharmacy
Morgantown, WV 26506

WISCONSIN
University of Wisconsin (2)
School of Pharmacy
425 North Charter Street
Madison, WI 53706

WYOMING
University of Wyoming (1)
School of Pharmacy
Box 3375, University Station
Laramie, WY 82071